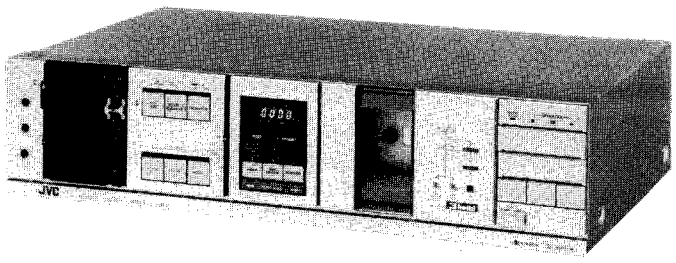
JVC

SERVICE MANUAL

MODEL

KD-D55 A/B/C/E/J/U

STEREO CASSETTE DECK



No. 4214
May 1982

Contents

Specifications

Type : Stereo cassette deck
Track system : 4-track, 2-channel
Tape speed : 1-7/8 inch/sec (4.8 cm/sec)
Frequency response : (-20 dB recording)
Metal tape: *1
30 – 18,000 Hz (±3 dB)
20 – 20,000 Hz
CrO_2 tape: *2
30 – 18,000 Hz (±3 dB)
20 – 20,000 Hz
Normal tape: *3
30 – 17,000 Hz (±3 dB)
20 – 19,000 Hz
(0 dB recording)
Metal tape:
30 – 12,500 Hz (±3 dB)
CrO_2 tape:
30 – 8,000 Hz (±3 dB)
Normal tape:
30 – 8,000 Hz (±3 dB)
Note: *1 ..... JVC ME or Equivalent
*2 ..... TDK SA or Equivalent
*3 ..... MAXELL UD or Equivalent
S/N ratio : 58 dB (S = 1 kHz, K3 = 3 %, N = A-weighted, Metal tape)
The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz ~ 10 kHz with DOLBY C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with ANRS/DOLBY B NR on.
Improvement of MOL : 4 dB at 10 kHz with DOLBY C NR on.
Wow and flutter : 0.05 % (WRMS)
0.17 % (DIN 45 500)
(with MAXELL UD tape)
Crosstalk : 60 dB (1 kHz)
Harmonic distortion : K3; 0.5 % THD; 1.0 %
(Metal tape, 1 kHz 0 VU)
Channel separation : 40 dB (1 kHz)

Heads : METAPERM head for record x 1
METAPERM head for playback x 1
2-Gap ferrite head for erasing x 1
Motor : Electric governed DC motor
Fast forward time : 110 sec. with C-60 cassette
Rewind time : 110 sec. with C-60 cassette
Input terminals :
Mic jack x 2 ; Max. sensitivity; 0.2 mV (-74 dBV)
Matching impedance; 600 Ω – 10 kΩ
Input jack x 2 ; Min. input level; 80 mV
Input impedance; 50 kΩ
Output terminals :
Output jack x 2 ; Output level; 0 – 500 mV
Output impedance; 6 kΩ
Phones jack x 1 ; Output level;
0 – 0.6 mW/8 Ω
Matching impedance;
8 Ω – 1 kΩ
Power requirement : AC 240/220/120 V, 50/60 Hz (KD-D55A/B/E)
AC 120 V, 60 Hz (KD-D55C/J)
AC 240/220/120/100 V, 50/60 Hz (KD-D55U)
Power consumption : 16 W
Dimensions : 17-1/8" (435 mm) W
4-5/16" (109 mm) H
11-3/8" (288 mm) D
(with feet, buttons, switches)
Weight : 10.4 lbs (4.7 kg)
Accessories : pin cords 2

Design and specifications subject to change without notice.

Features

1. Three-head system enables monitoring of the signals immediately after they have been recorded
   - Independent recording, playback and erase heads
2. Four-way digital counter
   - Displays remaining time
   - Shows the tune selected in music scanning
   - Works as a stopwatch showing the elapsed time in recording and playback
   - Works as a four-digit tape counter with memory function
3. Dolby* C Noise Reduction System (Single Dolby NR circuit)
   - Dolby B/ANRS and Dolby C selectable
   - Incorporates multiplex filter
4. Multi Music Scan mechanism
   - Up to 20 tunes can be skipped

   "Under license of Staar S.A., Brussels Belgium".
5. Counter memory mechanism enables replay between any 2 points
6. Record muting facility
7. Timer start mechanism
8. Two-color LED peak level indicator
9. Full-logic tape control mechanism
10. Output level control

Controls and Connections

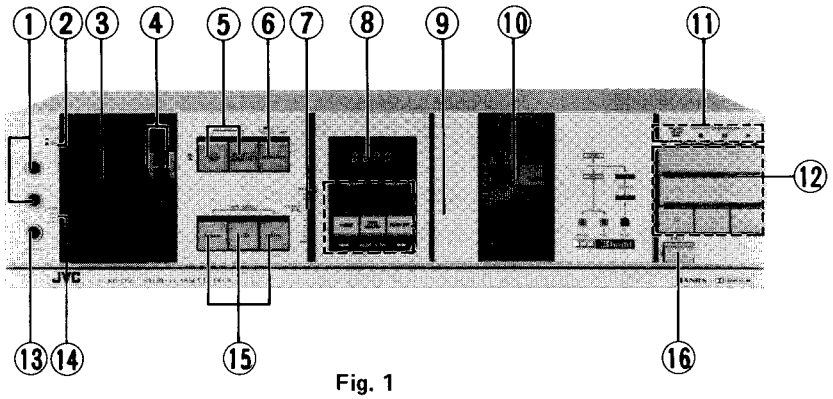


Fig. 1

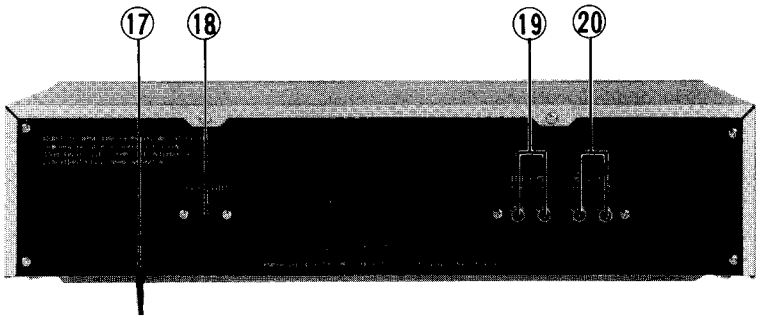


Fig. 2

1. Microphone jacks [MIC - Left, Right]
2. POWER switch
3. PEAK LEVEL indicators
4. INPUT LEVEL controls
5. NR SYSTEM switches [$\frac{\text{ON}}{\text{OFF}}$, $\frac{\text{DOLBY C}}{\text{ANRS/DOLBY B}}$]
6. MONITOR switch
7. OUTPUT LEVEL control
8. 4-way digital counter
9. Counter buttons
   - RESET
   - MEMORY
   - MODE (STOP WATCH, REMAINING TIME, COUNTER)
   - TAPE LENGTH (C-46L, C-120, C-90, C-60/46)
   - SCAN SET (P-1 --------- P-20)
   - MUSIC SCAN
10. Cassette holder
11. Indicators (Music scan, Recording, Pause, Playback)
12. Mechanical operation buttons
    - ◀◀ Rewind button
    - ▶▶ Fast forward button
    - ■ Stop button
    - ▶ Playback button
    - ○ Recording button
    - ❚❚ Pause button
    - ● Music scan button
13. Headphone jack [PHONES]
14. TIMER switch
15. TAPE SELECT switches [NORM, CrO_2, METAL]
16. EJECT button
17. Power cord
18. VOLTAGE SELECT switch
19. LINE IN (REC) terminals
20. LINE OUT (PLAY) terminals

Dimensions

(Unit: mm)

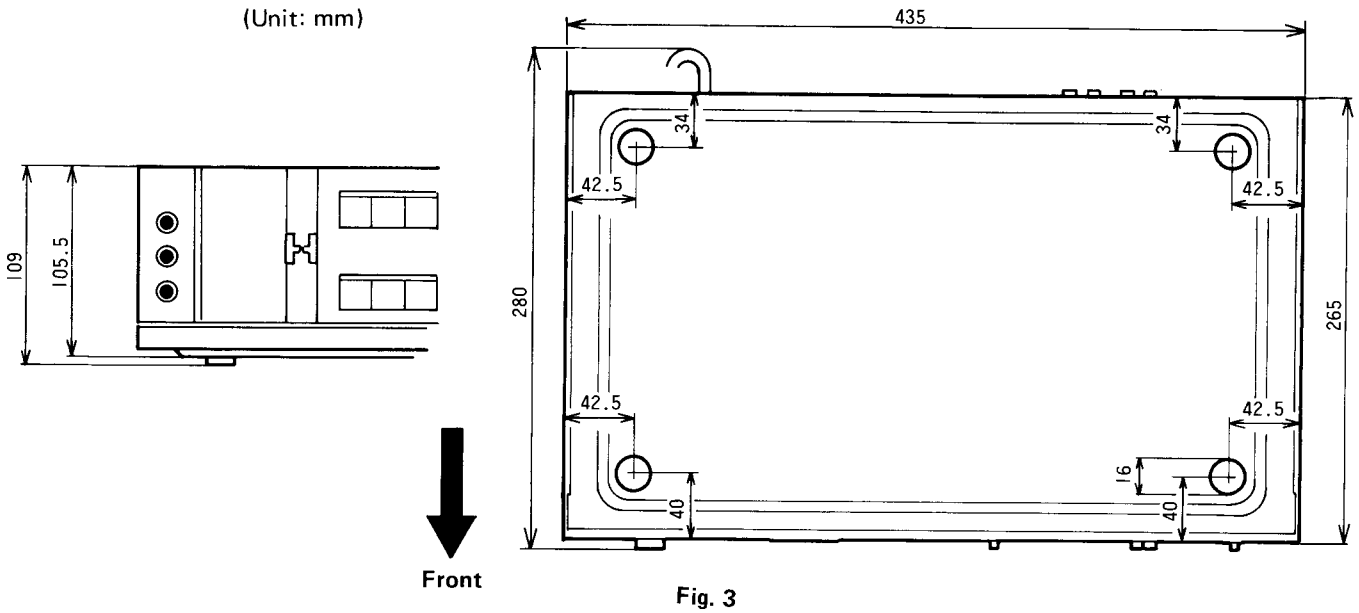
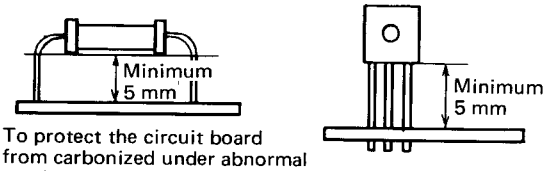


Fig. 3

Safety Precautions

⚠ Safety mark

Safety is very important with this unit. When replacing the parts marked ⚠ , be sure to use only those designated parts. The designated resistors, diodes, transistors become hot in use. When replacing, be sure to secure them with a distance of more than 5 mm from the circuit board. In addition, they are banded together to avoid touching other wiring, recheck this point as well after repair.
The wiring of the primary side should be wound more than one and half times, then soldered.



To protect the circuit board from carbonized under abnormal condition.

Fig. 4

Maintenance

To get long, trouble-free service, maintenance is important. Do not forget cleaning and demagnetizing.

Cleaning

After long use, the heads and tape part — capstan, pinch roller, etc. — will become dirty with dust or magnetic particles. Dirty heads cause imperfect erasing or high frequency drop-off. A dirty capstan and pinch roller will cause unstable tape speed, leading to increased wow and flutter. Always keep them clean by following the procedure below.

1. Heads

Use the head cleaning stick provided to wipe the surface where the tape comes into contact with the head.
(It is effective to moisten the cotton with alcohol.)

2. Pinch roller and capstan

Do the same method as heads.

3. Cabinet

When the cabinet becomes dirty, wipe it with a soft cloth soaked with a neutral cleaning solution of a polishing cloth.
* Do not use thinner or benzine.

Demagnetizing

The heads are made from a material resistant to magnetization, but after long use they become magnetized.
A magnet brought into their vicinity can magnetize the heads, causing excess noise. If noise seems to have increased, demagnetize the heads with a head demagnetizer through the following procedure.

1. Turn the POWER switch OFF.
2. Wrap the tip of the demagnetizer with vinyl tape or soft cloth so as not to damage the head surface. Switch on the demagnetizer and bring it close to the head.
3. Move the tip of the demagnetizer slowly first to the left and right, then up and down in front of the head. Gradually move it away from the head and switch it off at a distance of more than 30 cm (12").
4. The erase head need not be demagnetized. The capstan shaft and tape guide should be demagnetized in the same way as the record/playback head.

* Do not bring a magnetized metallic object (a screw driver, for example) near the head as this will increase noise.

Main Parts Location

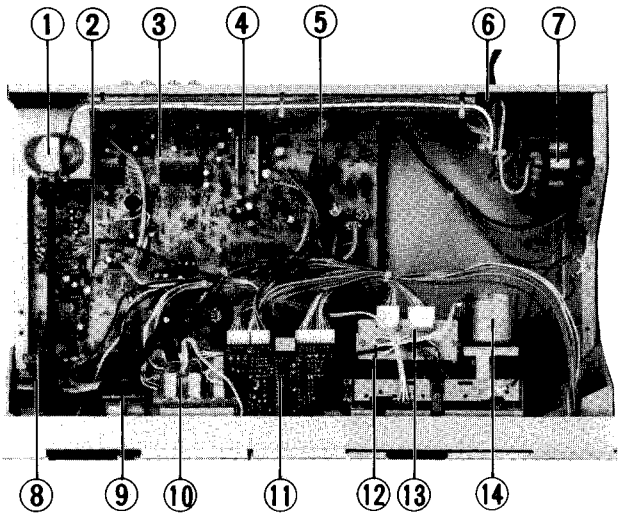


Fig. 5

1. Power switch
2. Remote bar (for power switch)
3. Pin jacks ass'y
4. Power transistor
5. Main amplifier P.W.B. ass'y
6. Strain relief (for power cord)
7. Power transformer
8. Microphone and headphone jacks P.W.B. ass'y
9. Input level control P.W.B.
10. Switches P.W.B.
11. 4-digital counter P.W.B. ass'y
12. Mechanical assembly
13. Mecha. terminal P.W.B.
14. Motor

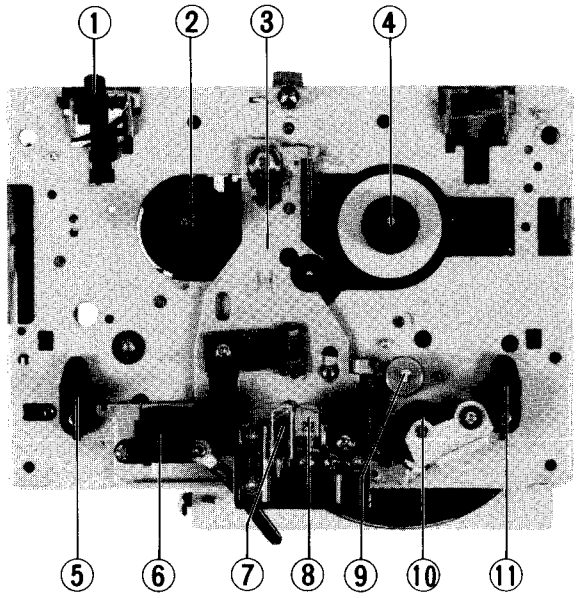


Fig. 6

[Mechanical parts]

1. Recording safety lever
2. Supply reel disk
3. Slide base ass'y
4. Take-up reel disk
5. Cassette guide (left side)
6. Erase head
7. Recording head
8. Playback head
9. Capstan shaft
10. Pinch roller ass'y
11. Cassette guide (right side)
12. Motor speed adjustment hole
13. Motor
14. FF solenoid
15. REW solenoid
16. Mecha. terminal P.W.B.
17. PAUSE solenoid
18. Flywheel
19. PLAY solenoid

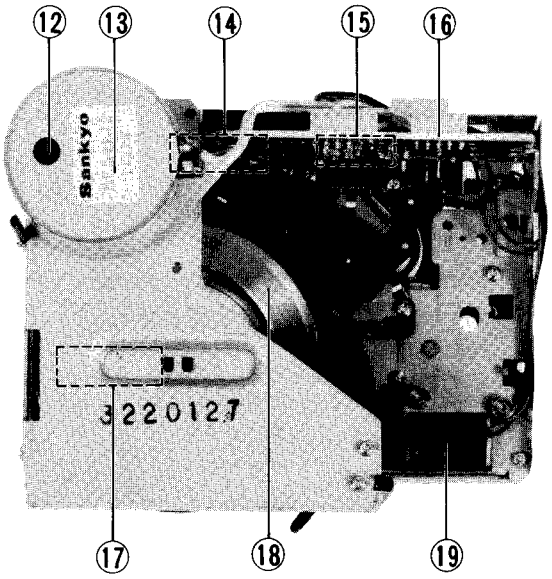


Fig. 7

Removal of the main parts

Observe care in handling the parts since the parts are small in size and the distance between them are short due to a deck design aimed mainly at compactness and high performance.

(Removal should be performed in the order of steps 1, 2, 3, ...)

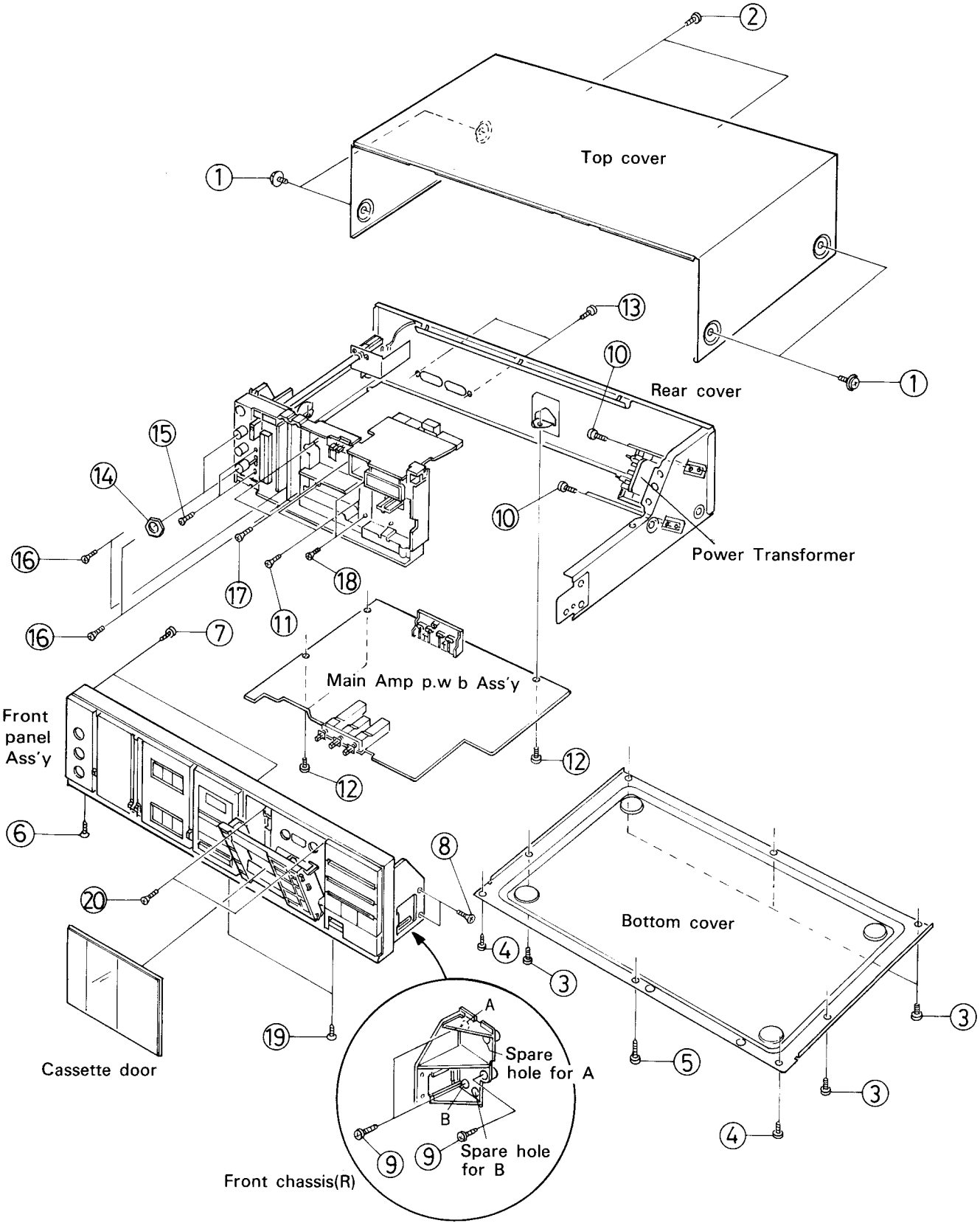


Fig. 8

Enclosure assembly parts

1. Top cover
   Remove 4 screws ① VKZ3001-002 on both sides and 2 screws ② SDST3006R on rear side.
2. Cassette door
   Push the eject button to open the cassette door. Slide off the cassette door upwards to unlock its pawls of both sides.
3. Bottom cover
   Remove 8 screws. ③ SDST3006Z ..... 5 pcs.
   ④ SDSB3008R ..... 2 pcs.
   ⑤ SDSF3012R ..... 1 pc.
4. Front panel assembly
   1) Remove a screw ⑥ SSSF3008Z.
   2) Remove 2 screws ⑦ SDSF3012Z.
   3) Remove 2 screws ⑧ SSST3006Z fastening the front chassis (R) on right side.
   (When removing the mecha. assembly only, need not remove the front panel assembly. See item of mechanical assembly removal.)

*Front chassis (R)
Remove 3 screws ⑨ SDSF3012Z.
(If A or B hole damaged, use spare hole for each.)

Electrical parts

1. Power transformer
   Remove 4 screws ⑩ SDST3008Z.
   (When removing under 2 screws, remove the bottom cover, and then insert the screw driver to remove its screws.)
2. Main amplifier P.W. board ass'y
   1) Remove the front plate ass'y.
   2) Remove 2 screws SSSP3006Z ⑪ fastening the switches ass'y on the front chassis.
   3) Remove 3 screws SDST3008Z ⑫ fastening the main amp. P.W. board on pattern side.
   4) Remove 2 screws SDSF3008R ⑬ fastening the pin jacks ass'y on the rear cover.
3. Mic. & phones jacks P.W. board ass'y
   Remove 2 nuts ⑭ fastening the mic. and phones jacks on the front chassis.
4. Timer switch
   Remove 2 screws ⑮ SSSP2606Z.
5. Input level control P.W. board ass'y
   Remove 4 screws ⑯ SSSP3006Z.
6. N.R. switch P.W. board ass'y
   Remove 2 screws ⑰ SSSP3006Z.
7. Output level control P.W. board ass'y
   Remove 2 screws ⑱ SSSP2004Z.

Mechanical assembly

1. Remove 2 screws ⑲ SSST3006R fastening the front panel on under side.
2. Remove 2 screws ⑳ SDST2605Z in the cassette holder.
   (When removing the mecha. assembly only, need not remove the front panel ass'y.)

Mechanical parts

The removal methods of mechanical parts are the same as for the model KD-W7A/B/C/E/J/U. Please refer to the service manual of KD-W7A/B/C/E/J/U (No.4215, page 11).

Block Diagram

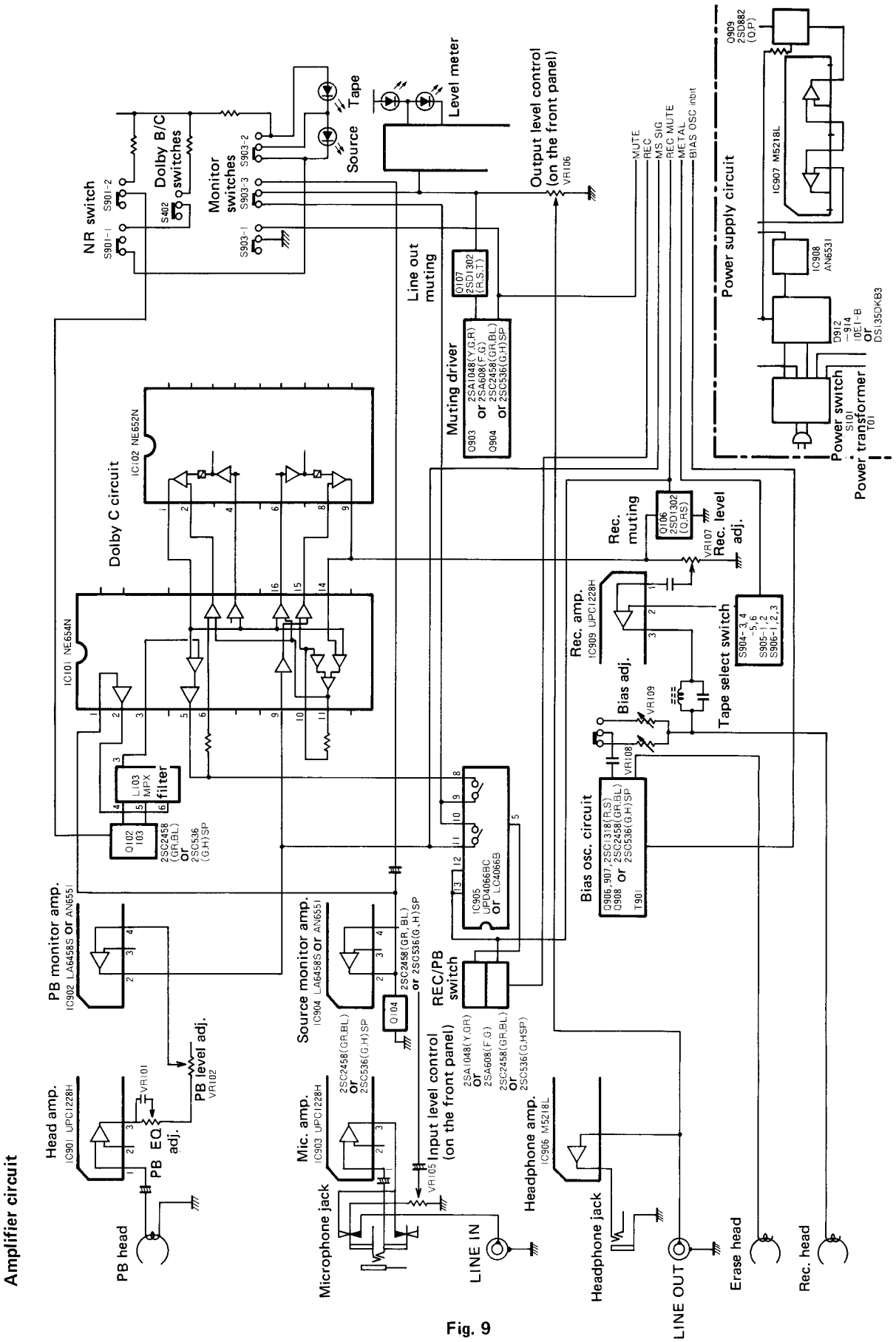


Fig. 9

Mecha. control circuit

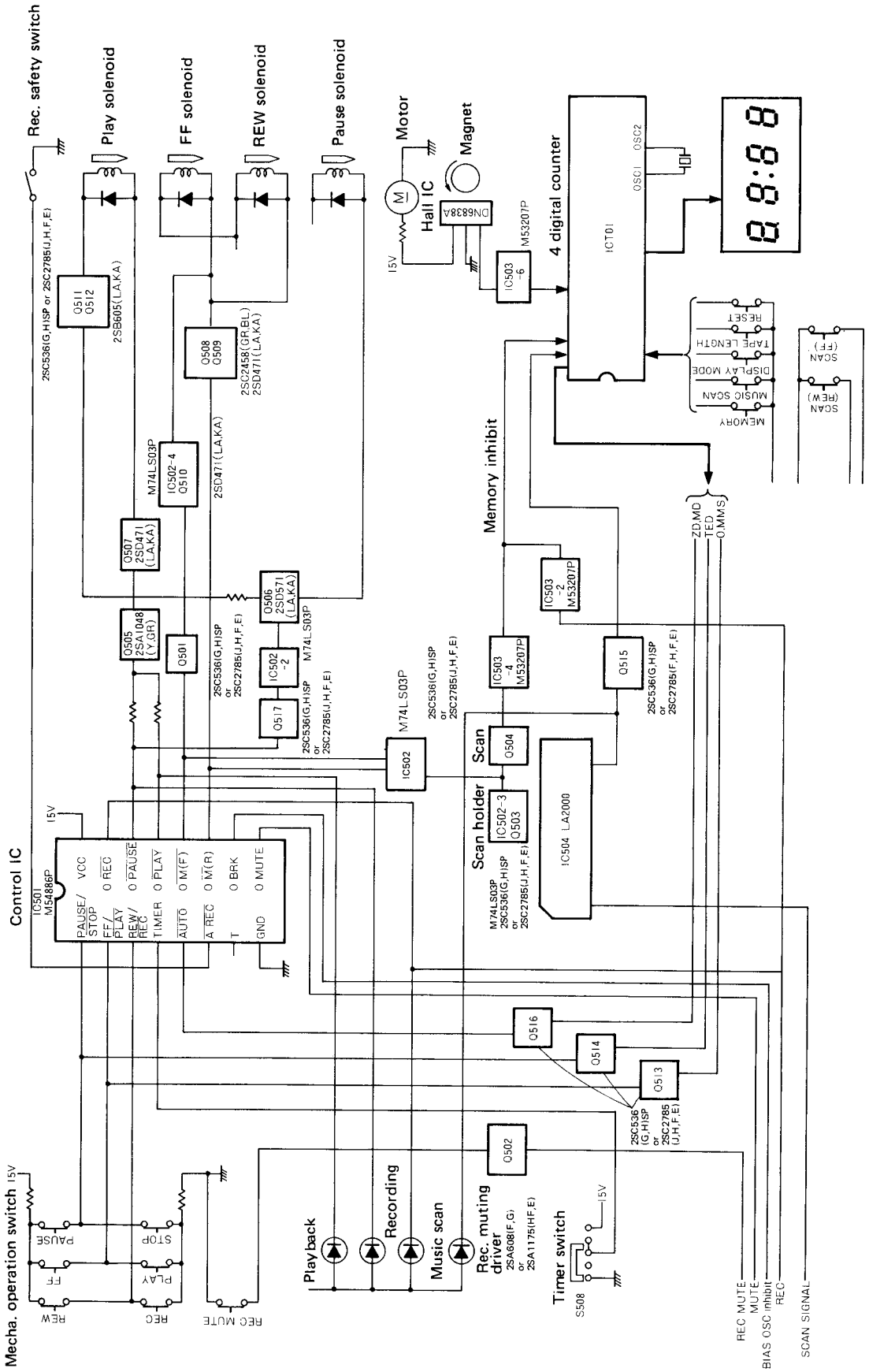


Fig. 10

Main Adjustments

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

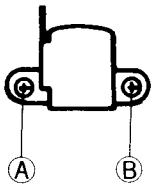
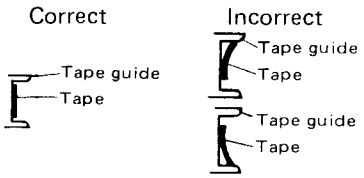
1) Electronic voltmeter
2) Audio frequency oscillator (range: 50–20 kHz and output 0 dB with impedance 600 Ω)
3) Attenuator
4) Standard tapes for REC/PB
   Maxell UD – SF tape
   TDK SA – SA tape
   JVC ME – Metal tape
   } or equivalent
5) Reference tapes for playback (JVC Test Tape)
   VTT-658 (for head azimuth adj.)
   VTT-656 (for motor speed, wow flutter adj.)
   VTT-664 (for reference level 1 kHz)
   VTT-675N (for playback EQ adj.)
   TMT-6247 (for music scan)
   TMT-6237 (for music scan)
6) Resistors: 600 Ω (for attenuator matching)

2. Mechanical adjustment

1) Torque testing cassette gauge
2) Blank tape (C-120) for tape running checker.

[II] Adjustment and repair of the mechanism

(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting erase head height 	Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw Ⓐ until the tape runs in the center of the erase head tape guide. 	Screw Ⓐ		Be sure to perform this adjustment after replacing the erase head. Screw Ⓑ is fixed.

Replacement and adjustment of record and playback heads

This mechanism is used independently 3 heads. Each head-self is independent perfectly, but it is adjusted as head assembly on the head base, and then needs to perform as assembly for record and playback. If record or playback head is damaged, needs to replace as head assembly (ZCKDD55Y-HEAD).
When adjusting the head screws, observe care to perform as following method.

1. Basic dimensions

Unit: mm

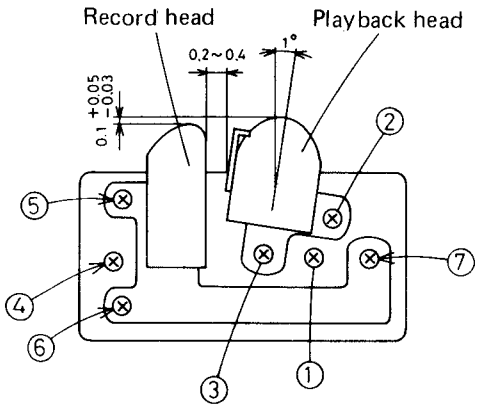


Fig. 11

Fig. 11 shows the basic dimensions of the record and playback heads. When replacing the head assembly or checking the frequency response, care its dimensions.

Information about screws:
- ○ : Adjustment is required.
- X : Adjustment is not required.

X ① Head base fixing screw
X ② ③ Playback head fixing screw (balance screw for recording head)
○ ④ Adjusting screw for playback azimuth
X ⑤ Adjusting screw for recording height
X ⑥ Adjusting screw for recording flapper
○ ⑦ Adjusting screw for recording azimuth

2. Adjustment

After replacement of the head assembly, adjust it according to the following method.

1) Playback head azimuth
   - Connect an electronic voltmeter to the LINE OUT terminals.
   - Adjust the screw ④ until the recording of the electronic voltmeter becomes maximum for both channels.
   - After adjusting, set the screw with screw bond.
2) Recording head azimuth
   - Connect an electronic voltmeter to the LINE OUT terminals.
   - Apply 0 VU –20 dB 14 kHz signal to LINE IN terminals.
   - Adjust the screw ⑦ so that the electronic voltmeter reads maximum with recording monitor signal for both channels.

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting motor speed	Connect a speed meter (an electronic counter) to the LINE OUT terminals. Play back the VTT-656 test tape. Adjust the semi-fixed resistor in the motor until the reading of the speed meter is 3000 Hz.	Semi-fixed resistor in the motor	3000 Hz	If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter.
Checking play-back torque	Employ a torque testing cassette tape for the checking.		40—70 gr-cm	If the standard torque is not obtained, replace the take-up disc assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		More than 80 gr-cm	If the standard torque is not obtained, clean the capstan belt, motor pulley, flywheel circumference, supply reel disc circumference, etc.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT-656 test tape. Check to see if the reading of the meter is within 0.05% (WRMS).			If the reading becomes moving value even if conforming to the standard, a re-claim may be raised. Repairs are necessary.
Multi-music scan check	1. Using a TMT-6247 with the counter display switch set to MMS. Push the FF SCAN or REW SCAN button to check scanning. 2. Using the TMT-6237, the music scan mechanism does not function.			

[III] Electrical adjustment location

Main Amp. P.W. Board (Parts ass'y side view)

(Turning in the direction of the arrow increases the levels.)

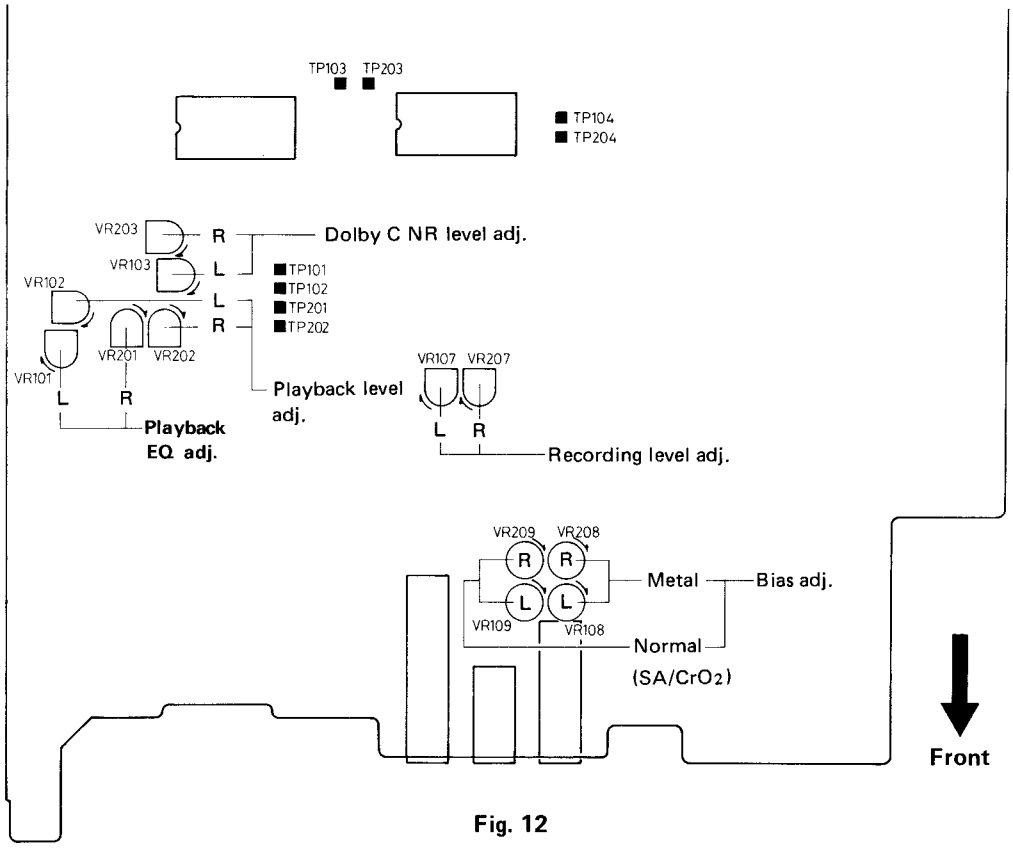


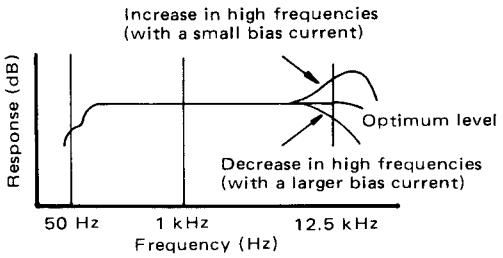
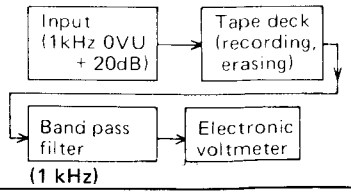
Fig. 12

[IV] Electrical circuit adjustment procedure

In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient, with steps other than those.
Adjustment should be performed in the order of steps 1, 2, 3, ...

Step	Item	Adjustment		Frequency level	Output increase deviation
1	Dolby NR	Dolby B NR at recording	INPUT: LINE IN Connective point: TP-104, 204 Reference level: 400 Hz −6 dBs (= Cal level)	1 kHz Cal −40 dB	+5.7 dB ± 1 dB
				5 kHz Cal −20 dB	+3.5 dB ± 1.5 dB
				1 kHz Cal	0 dB ± 1 dB
		Dolby C NR at recording		1 kHz Cal −40 dB	+17 dB ± 1.5 dB
				5 kHz Cal −20 dB	+3.5 dB ± 1.5 dB
				1 kHz Cal	0 dB ± 1 dB
2	Dolby NR	Dolby B NR at playback	INPUT: IC101, 201 Pin 9 Note: Connect an E Capacitor (10 μ, 50 V) to pin 9 (+ side) from ATT (− side). Connective point: TP-102, 202 Reference level: 400 Hz 0 dBs (= Cal level)	1 kHz Cal −34.3 dB	−5.7 dB ± 1 dB
				5 kHz Cal −16.5 dB	−3.5 dB ± 1.5 dB
				1 kHz Cal	0 dB ± 1 dB
		Dolby C NR at playback		1 kHz Cal −23 dB	−17 dB ± 2 dB
				5 kHz Cal −16.5 dB	−3.5 dB ± 2 dB
				1 kHz Cal	0 dB ± 1 dB

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
3	Monitor level	(After adjustments of the items 1 and 2, perform this item.) 1. Play back test tape VTT-664 (1 kHz) in recording mode with bias cut and monitor switch at "TAPE". 2. NR SW: OFF. Adjust VR102, 202 so that LINE OUT levels become −4 dBs. 3. Set at playback mode, and adjust VR103, 203 so that LINE OUT levels become the same as item 2.	VR102, 202 VR103, 203	−4 dBs	Be sure to perform this adjustment after replacing the head.
4	Playback EQ	Play back test tape VTT-675N (1 kHz, 10 kHz) for the following adjustment. Adjust VR101 and 201 so that 10 kHz signal and 1 kHz signal gains become flat response.	VR101, 201	Reference frequency; 1 kHz 0±2dB at 10 kHz	NR: OFF TAPE SELECT: SF/NORM
5	Level meter checking	1. Set the cassette deck to its recording mode. 2. Apply 1 kHz signal to the LINE IN terminals. 3. Adjust input level controls until the signal is available at −4 dBs at the LINE OUT terminals. 4. Check lighting at 0 dB indicator of the LED meter.			

Step	Item	Adjustment	Adjusting point	Standard value	Remarks
6*	Record/ playback frequency response	Record 1 kHz, 50 Hz and 12.5 kHz signals at an input level of 0 dB to −20 dB. Play back the tape. Check to see that the 50 Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1 kHz signal output as a reference.  **Note:** Be sure to perform this adjustment after adjustment of item 7 (recording level). If 1 k/12.5 kHz signal output level become 0 ± 4 dB or more, recheck item 6. (At NR SW on, Rec/PB frequency response cannot be checked with the monitor.)	For SF/ NORM tape; VR109, 209 For Metal tape; VR108, 208	Reference frequency; 1 kHz 0 ± 3 dB at 50 Hz 0 ± 3 dB at 12.5 kHz	If the bias current is not properly adjusted, the record and playback characteristics become as shown left.
7	Recording level	1. Apply a 1 kHz, approx. −10 dB signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at −4 dBs at the LINE OUT terminals. 2. After checking to see if the LED indicator becomes 0, record the signal applied to both left and right channels using normal tape. 3. Play back the recording part. Perform the recording signal adjustment with VR107 and VR207 so that the LED indicator becomes 0.	VR107, 207	0	Perform the adjustment using a normal tape, level difference between recording and playback for SA/CrO_2 and metal tapes, should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB.
8	Record/ playback signal distortion	1. Record a 1 kHz, −4 dBs signal to LINE IN terminals and perform recording with the LED indicator becomes 0. 2. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		SF/NORM tape; Less than 2% SA/CrO_2 tape; Less than 3% Metal tape; Less than 2%	Be sure to perform this adjustment following bias current and recording level adjustments.
9	Signal-to-noise ratio in recording/playback	1. Record a 1 kHz, 0 dB signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2. Play back the recorded part. Measure the 0 dB recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		SF/NORM, SA/CrO_2 and Metal tapes; More than 42 dB	Apply an output (−72 dBs) to the MIC terminals with the recording level controls set to maximum so that the LED indicator becomes 0.
10	Checking erasing coefficient	1. Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the LED indicator becomes 0. 2. Perform recording with the signal enhanced by 20 dB. 3. Erase a part of the recording. 4. Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter.		More than 65 dB	For the measuring, connect a band pass filter between the deck and the electronic voltmeter. 
11	Check Auto stop	Hold less than 1 ± 0.5 mm gap to the magnet from the hall IC.			

Voltage measured value

Main Amplifier P.W.B.

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC101	E. Voltmeter	7.2	7.2	7.2	0.5	7.2	7.2	6.6	6.6	7.2	7.2	7.2	14.2	14.5	7.2	7.2	7.2	0	7.2	7.2	7.2	7.2	7.2	7.2	7.2
	C. Tester	5.6	7.1	7.0	0.4	7.1	7.0	0.85	0.85	5.6	7.0	7.1	9.3	14.5	7.1	7.1	7.1	0	7.1	7.1	7.1	7.1	7.1	7.1	7.1
IC102	E. Voltmeter	7.2	7.2	7.2	7.2	0	7.2	7.2	7.2	7.2	7.2	7.2	6.8	14.5	0.5	7.3	6.8	7.2	7.2						
	C. Tester	7.1	7.1	6.9	5.7	0	5.2	7.0	7.1	7.1	7.1	6.7	6.2	14.5	0.4	7.1	6.2	6.8	7.1						
IC901	E. Voltmeter	1.4	0.8	7.0	14.4	0	7.0	0.8	1.4																
	C. Tester	0.18	0.6	7.0	14.4	0	7.0	0.6	0.18																
IC902	E. Voltmeter	14.4	7.2	7.2	7.2	0	7.2	7.2	7.2	14.4															
	C. Tester	14.4	7.2	7.1	6.6	0	6.6	7.1	7.2	14.4															
IC903	E. Voltmeter	1.4	0.8	7.0	16.5	0	7.0	0.8	1.4																
	C. Tester	0.15	0.6	7.0	16.5	0	7.0	0.6	0.15																
IC904	E. Voltmeter	14.4	7.2	7.2	7.2	0	7.2	7.2	7.2	14.4															
	C. Tester	14.4	7.2	7.1	5.8	0	5.8	7.1	7.2	14.4															
IC905	E. Voltmeter	7.2	7.2	7.2	7.3	0	0	0	7.2	7.2	7.2	7.2	14.4	14.4	14.5										
	C. Tester	7.1	7.1	7.1	7.1	0	0	0	7.1	7.2	7.2	7.2	14.5	14.5	14.5										
IC906	E. Voltmeter	10.3	10.3	10.3	0	10.3	10.3	10.3	20.5																
	C. Tester	10.0	6.6	8.5	0	8.5	6.6	10.0	20.5																
IC907	E. Voltmeter	18.5	7.3	7.3	7.3	0	7.3	7.3	15.2	18.5															
	C. Tester	18.5	7.1	7.1	6.9	0	6.9	7.1	7.1	18.5															
IC908	E. Voltmeter	5.0	0	29.0	20.5																				
	C. Tester	5.0	0	29.0	20.5																				
IC909	E. Voltmeter	1.4	0.8	7.5	16.7	0	7.5	0.8	1.4																
	C. Tester	0.2	0.6	7.3	16.5	0	7.3	0.6	0.2																

	E. Voltmeter			C. Tester		
	E	C	B	E	C	B
FET	D	G	S	D	G	S
Q101	6.5	6.5	6.5	6.2	1.0	6.2
Q102	0	7.2	0	0	7.1	0
Q103	0	7.2	0	0	7.1	0
Q104	7.2	7.2	0	7.1	7.1	0
Q106	0	0	0	0	0	0
Q107	0	0	0	0	0	0
Q901	14.4	0	14.4	14.4	0	14.4
Q902	0	14.5	0	0	14.0	0
Q903	20.0	0	20.5	20.0	0	20.0
Q904	0	20.5	0	0	20.0	0
Q906	1.1	18.5	0.4	1.1	18.5	0.32
Q907	1.1	18.5	0.4	1.1	18.5	0.32
Q908	0	0	0.8	0	0	0.75
Q909	14.5	19.6	15.1	14.5	19.6	15.1

Voltage values are measured by the following meter without input signal at NR SW = OFF, recording mode.

E. Voltmeter = Electronic Voltmeter

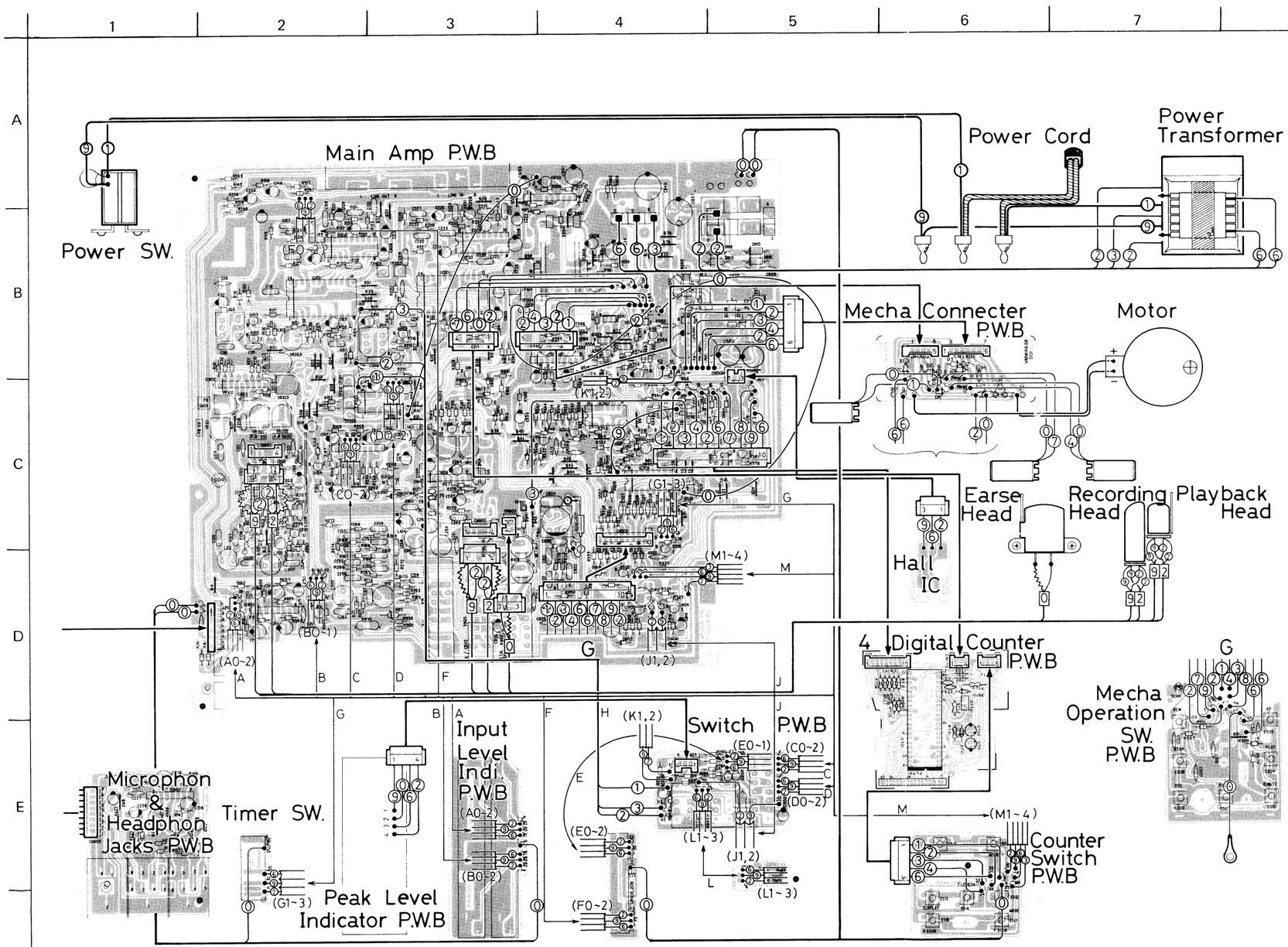
C. Tester = Circuit Tester (20 kΩ/V impedance)

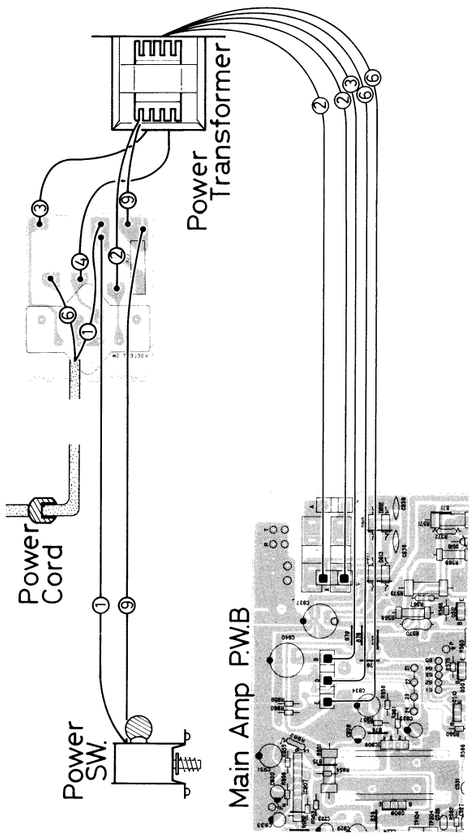
(less than 10 V – 10 V range
10 V or more – 50 V range)

Mecha. Control P.W.B.

		1	2	3	4	5	6	7	8	9
IC504	E. Voltmeter	2.0	0	2.0	0	0	0	0.2	0	8.5
	C. Tester	0.25	0	1.95	0	0	0	0	0	8.4

Wiring Connection





Color code are shown below

1 ..... Brown
2 ..... Red
3 ..... Orange
4 ..... Yellow
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Grey
9 ..... White
0 ..... Black

Fig. 13

P.W.Board Parts

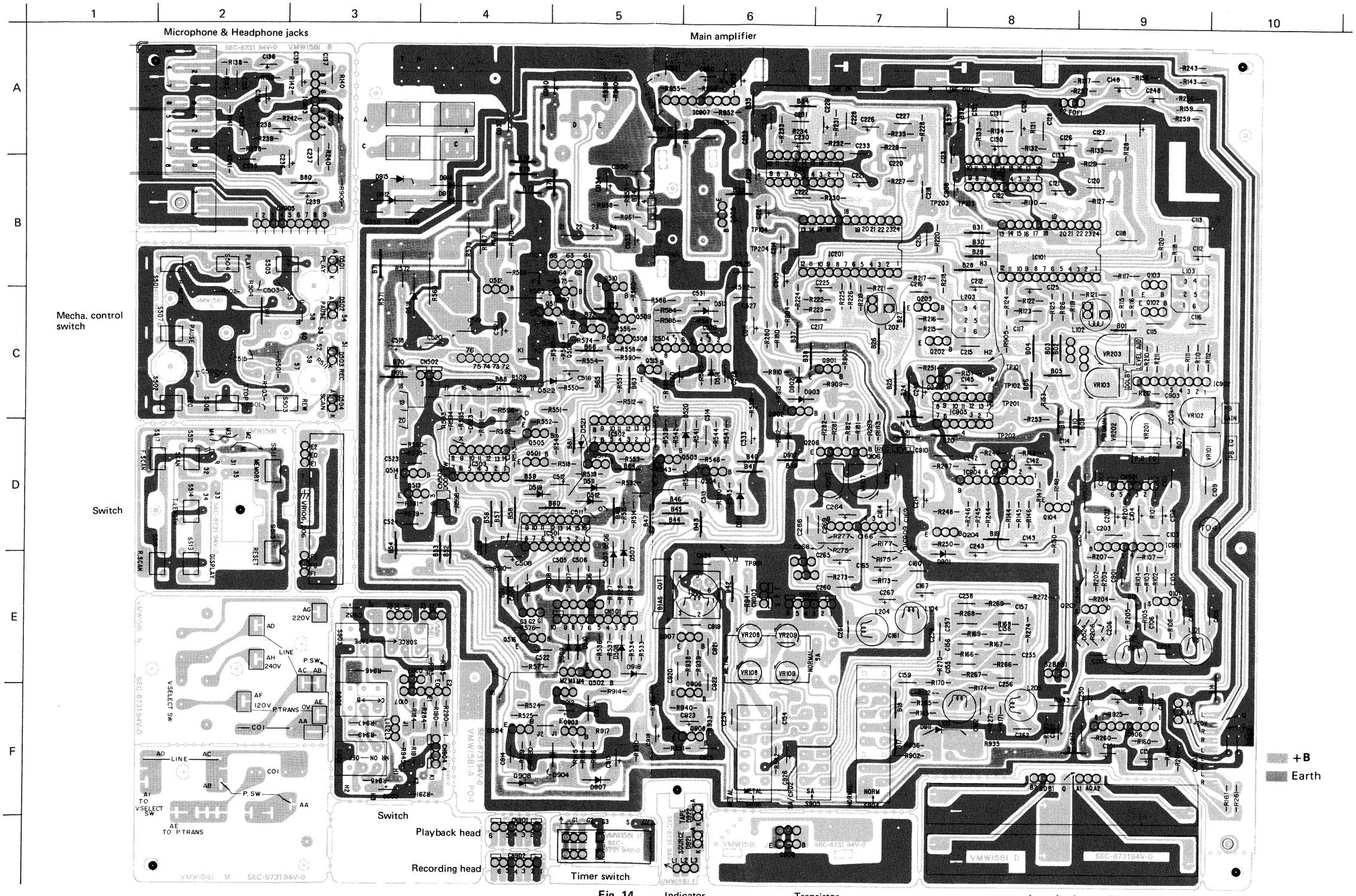


Fig. 14

Standard Schematic Diagram of KD-D55 (Main Amplifier Circuit)

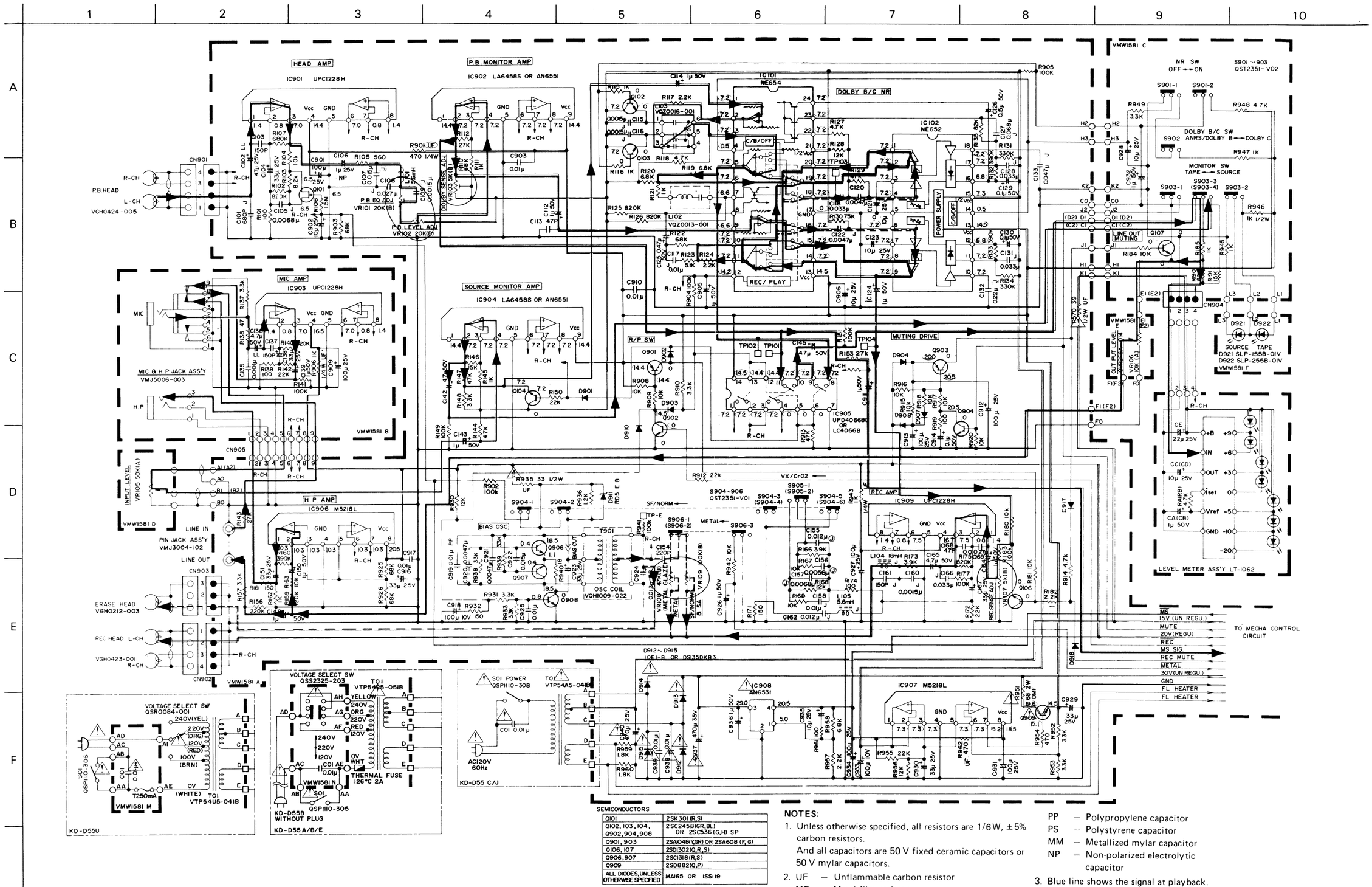
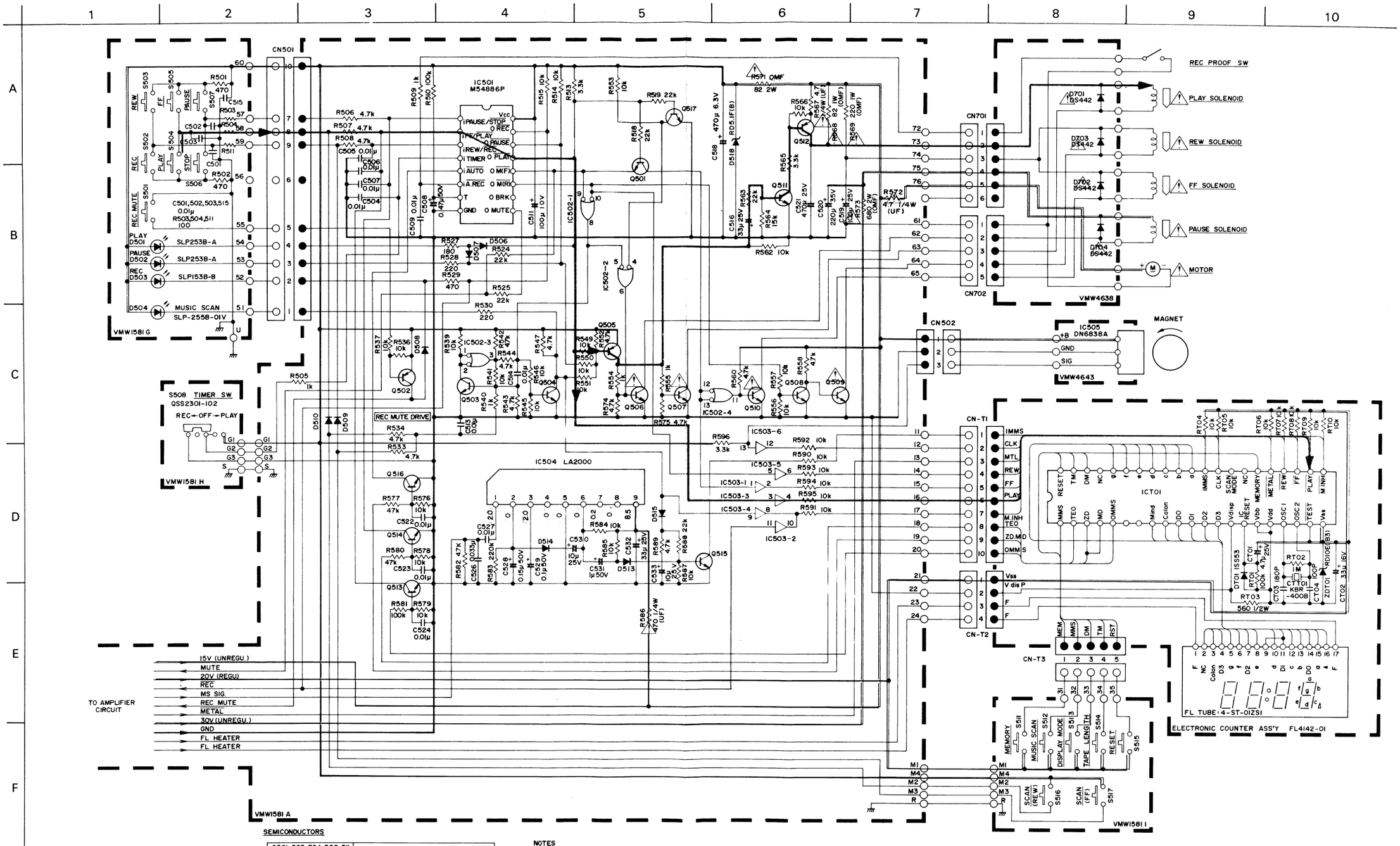


Fig. 15

NOTES:

1. Unless otherwise specified, all resistors are 1/6W, ±5% carbon resistors.
   And all capacitors are 50 V fixed ceramic capacitors or 50 V mylar capacitors.
2. UF — Unflammable carbon resistor
   MF — Metal film resistor
   OMF — Oxided metal film resistor
   Ta — Tantalum solid electrolytic capacitor
   LL — +20% low leak current electrolytic capacitor
   PP — Polypropylene capacitor
   PS — Polystyrene capacitor
   MM — Metallized mylar capacitor
   NP — Non-polarized electrolytic capacitor
3. Blue line shows the signal at playback.
   Red line shows the signal at recording and +B circuits.
   ⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Standard Schematic Diagram of KD-D55 (Mecha Control circuit)



SEMICONDUCTORS

Q501, 503, 504, 508, 511 Q513, 514, 515, 516, 517	2SC2785(J,H,F,E) OR 2SC2458(GR,BL)
Q502, 505	2SA1175(H,F,E) OR 2SA1048(Y,GR)
Q506	2SD571(LA,KA)
Q507, 509, 510	2SD471(LA,KA)
Q512	2SB605(LA,KA)
IC502	M74LS03P
IC503	M53207P
ALL DIODES, UNLESS OTHERWISE SPECIFIED	MA165 OR 1SS119

NOTES

ALL VOLTAGES ARE MEASURED BY VTVM, WITHOUT INPUT SIGNAL.
(MODE: REC, TAPE SELECT: METAL, NR: OFF)
UNLESS OTHERWISE SPECIFIED. ALL RESISTORS ARE 1/6W, ±5%, CARBON RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.

UF UNFLAMABLE CARBON RESISTOR
OMF OXIDED METAL FILM RESISTOR
LL LOW LEAK CURRENT E.CAPACITOR
PP POLYPROPYLENE CAPACITOR
NP NON POLARIZED E. CAPACITOR

Fig. 16

Red line shows +B circuits.
⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Main P.W.B. Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

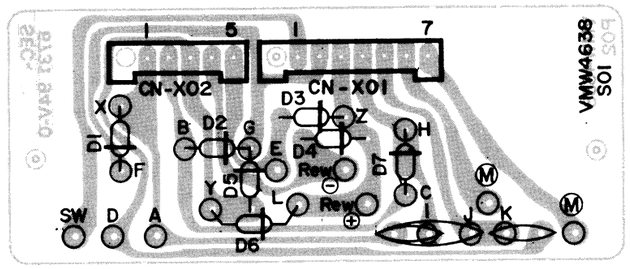
Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
		VMW1581-104	P.W. Board		1
R101, 201,139,239,174,274, 503,504,511,919,961		QRD161J-101	C. Resistor	100 Ω 1/6 W	11
R102,202,140,240,126,226, 125,225,175,275		" -824	"	820 kΩ "	10
R103, 203		" -822	"	8.2 kΩ "	2
R104,204,167,267,169, 269,180,280,181,281 184,284,908,909,915, 916,917,918,920,942, 512,514,515,536,537, 539,541,545,546,549, 550,551,553,556,557, 562,566,576,578,579, 584,585,587,590,591, 592,593,594,595		" -103	"	10 kΩ "	49
R105, 205		" -561	"	560 Ω "	2
R106, 206		QRD143J-155S	"	1.5 MΩ 1/4 W	2
R107, 207		QRD161J-684	"	680 kΩ 1/6 W	2
R110, 210, 122, 222, 903, 925, 926		" -683	"	68 kΩ "	7
R111,211,115,215,116,216, 121,221,145,245,162,262, 185,285,505,509,540,554, 555,945,947		" -102	"	1 kΩ "	21
R112,212,143,243,153,253		" -273	"	27 kΩ "	6
R117,217,124,224,172,272, 182,282,957		" -222	"	2.2 kΩ "	9
R118,218,127,227,506,507, 508,533,534,542,543,544, 547,558,560,574,575,582, 589,914,948		" -472	"	4.7 kΩ "	21
R119,219,120,220,958		" -682	"	6.8 kΩ "	5
R123, 223		" -512	"	5.1 kΩ "	2
R128,228,168,268,930,956		" -123	"	12 kΩ "	6
R129,229,144,244,147,247, 577,580,913		" -473	"	47 kΩ "	9
R130, 230		" -753	"	75 kΩ "	2
R131, 231, 134, 234		" -334	"	330 kΩ "	4
R132,232,133,233,160,260		" -394	"	390 kΩ "	6
R135,235,190,290		" -823	"	82 kΩ "	4
R137,237,148,248,157,257, 910,931,933,949,952,953, 513,552,596		" -332	"	3.3 kΩ "	15
R138, 238		" -470	"	47 Ω "	2
R141,241,149,249,151,251, 177,277,183,283,510,581, 902,904,905,941		" -104	"	100 kΩ "	16
R142,242,150,250,518,519, 524,525,563,588,912,955		" -223	"	22 kΩ "	12
R146, 246, 191, 291, 564		" -153	"	15 kΩ "	5
R156, 256, 583		" -224	"	220 kΩ "	3
R159, 259		" -124	"	120 kΩ "	2
R161, 261, 171, 271, 932		" -151	"	150 Ω "	5
R163, 263		QRD143J-103S	"	10 kΩ 1/4 W	2
R165,265,501,502,529,954		QRD161J-471	"	470 Ω 1/6 W	6
R166, 266, 173, 273		" -392	"	3.9 kΩ "	4
R901, 962, 586	⚠	QRD149J-471S	"	470 Ω 1/4 W	3
R906, 943		" -102S	"	1 kΩ "	2
R935	⚠	QRD129J-330	" (U,F)	33 Ω 1/2 W	1

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
R936		QRD161J-122	C. Resistor	1.2 kΩ 1/6 W	1
R938, 939		" -333	"	33 kΩ "	2
R940		" -180	"	18 Ω "	1
R946		QRD121J-102	"	1 kΩ 1/2 W	1
R951	⚠	QRG029J-680	O.M.F. Resistor	68 Ω 2 W	1
R959, 960		QRD161J-182	C. Resistor	1.8 kΩ 1/6 W	2
R527		" -181	"	180 Ω "	1
R528, 530		" -221	"	220 Ω "	2
R565		QRD147J-332S	"	3.3 kΩ 1/4 W	1
R567, 572	⚠	QRD149J-4R7S	" (UF)	4.7 kΩ "	2
R568	⚠	QRG019J-820	O.M.F. Resistor	82 Ω 1 W	1
R569	⚠	" -221	"	220 Ω "	1
R570	⚠	QRD129J-390	C. Resistor (UF)	39 Ω 1/2 W	1
R571	⚠	QRG029J-820	O.M.F. Resistor	82 Ω 2 W	1
R573	⚠	" -681	"	680 Ω "	1
C101, 201		QCS11HJ-681	C. Capacitor	680 pF 50 V	2
C102, 202, 136, 236		QEB41EM-475M	E. Capacitor (LL)	4.7 μF 25 V	4
C103, 203, 137, 237		QCS11HJ-151	C. Capacitor	150 pF 50 V	4
C104,204,138,238,151,251, 167,267,516,532,916,923, 929,930		QET41ER-336M	E. Capacitor	33 μF 25 V	14
C105, 205, 157, 257		QFM41HJ-682	M. Capacitor	0.0068 μF 50 V	4
C106, 206		QEN41HA-105N	E. Capacitor	1 μF "	2
C107, 207, 922		QFM41HJ-153	M. Capacitor	0.015 μF "	3
C108, 208		" -273	"	0.027 μF "	2
C109,209,115,215,116,216, 160,260		" -152	"	0.0015 μF "	8
C112,212,114,214,124,224, 139,239,143,243,148,248, 150,250,164,264,531,905, 911,926,932,936		QET41HR-105M	E. Capacitor	1 μF "	22
C113, 213		QCS11HJ-470	C. Capacitor	47 pF "	2
C117, 217, 158, 258, 527		QFM41HJ-103	M. Capacitor	0.01 μF "	5
C118,218,128,228,131,231, 166,266,526		" -333	"	0.033 μF "	9
C120,220,122,222,920,921		" -472	"	0.0047 μF "	6
C121,221,123,223,530,533, 902,906,928,935		QET41ER-106	E. Capacitor	10 μF 25 V	10
C125,225,508		QET41HR-474	"	0.47 μF 50 V	3
C126,226,528		" -154N	"	0.15 μF "	3
C127,227		QFM41HJ-683	M. Capacitor	0.068 μF "	2
C129,229,130,230,529,914		QET41HR-104N	E. Capacitor	0.1 μF "	6
C132,232		QFM41HJ-224	M. Capacitor	0.22 μF "	2
C133,233		" -473	"	0.047 μF "	2
C135,235		" -102	"	0.001 μF "	2
C142,242,145,245,165,265		QET41HR-475	E. Capacitor	4.7 μF "	6
C154,254		QCS11HJ-221	C. Capacitor	220 pF "	2
C155,255,162,262		QFM41HJ-123	M. Capacitor	0.012 μF "	4
C156,256		" -562	"	0.0056 μF "	2
C161,261		QCS12HJ-151	C. Capacitor	150 pF 500 V	2
C168,268		QCS11HJ-470	"	47 pF 50 V	2
C169,269		QFM41HJ-272	M. Capacitor	0.0027 μF "	2
C501,502,503,504,505,506, 507,509,513,514,515,522, 523,524,903,910,917,925,		QCF11HP-103	C. Capacitor	0.01 μF "	20
C938,939	⚠	QCF11HP-103	C. Capacitor	0.01 μF 50V	2
C511, 918, 933		QET41AR-107N	E. Capacitor	100 μF 10 V	3
C518		QET40JR-477N	"	470 μF 6.3 V	1
C519,901,909,912,913,927, 931,934		QET41ER-107ZM	"	100 μF 25 V	8
C520		QET41VR-227N	"	220 μF 35 V	1

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
C521,940	⚠	QET41ER-477N	E. Capacitor	470 μF 25 V	2
C919		QFP82AJ-103	P.P. Capacitor	0.01 μF 100 V	1
C924		QFP82AJ-123	"	0.012 μF "	1
C937	⚠	QET41VR-477N	E. Capacitor	470 μF 35 V	1
IC101, 201		NE654N	I.C.		2
IC102, 202		NE652N	"		2
IC901, 903, 909		UPC1228H	"		3
IC902, 904		AN6551	"		2
IC905		LC4066B	"		1
IC906, 907		M5218L	"		2
IC908	⚠	AN6531	"		1
IC501		M54886P	"		1
IC502		M74LS03P	"		1
IC503		M53207P	"		1
IC504		LA2000	"		1
Q101, 201		2SK301(R,S)	F.E.T.		2
Q102,202,103,203,104,204, 501,503,504,508,511,513, 514,515,516,517,902,904, 908		2SC536(G,H)SP	Transistor		19
Q106, 206, 107, 207		2SD1302(R,S,T)	"		4
Q901, 903		2SA1048(Y,GR)	"		1
Q906, 907		2SC1318(R,S)	"		2
Q909	⚠	2SD882(Q,P)	"		1
Q502, 505		2SA1175(H,F,E)	"		2
Q506	⚠	2SD571(LA,KA)	"		1
Q507, 509, 510	⚠	2SD471(LA,KA)	"		3
Q512		2SB605(LA,KA)	"		1
D901–904,907,908,910, 506–510,513,514,515, 520,522,917,918		MA165	Si. Diode	or 1SS119-14TE	19
D911		RD5.1EB	Zener Diode		1
D912–915	⚠	DS135DKB3	Si. Diode	or 10E1-B	4
D921		SLP-155B-01V	L.E.D.		1
D922		SLP-255B-01V	"		1
D501		SLP253B-A	"	PLAY	1
D502		SLP253B-A	"	PAUSE	1
D503		SLP153B-B	"	REC	1
D504		SLP-255B-01V	"	MS	1
D518		RD5.1FB	Zener Diode		1
D519		QWY124-016	Bus Wire		1
D522, 523, 524		MA165	Si. Diode		3
L101, 201, 105, 205		VQP0001-562	Inductor		4
L102, 202		VQZ0013-001	Filter		2
L103, 203		VQZ0016-001	"		2
L104, 204		VQP0001-183	Inductor		2
T901		VQH1009-022	Osc. Coil		1
VR101, 201, 102, 202		QVP8A0B-024	V. Resistor	20 kΩ	4
VR103, 203, 107, 207		" -053	"	5 kΩ	4
VR105, 205		QVZ6105-001V	"	INPUT	2
VR106, 206		QVR2F6A-014	"	OUTPUT	2
VR108, 208		QVZ3501-473	"		2
VR109, 209		QVP4A0B-104	"	100 kΩ	2
CN901		PU49218-06	Connector	P.B. Head	1
CN902		" -06	"	REC. Head	1
CN903		QMV5005-003	"	E. Head	1
CN904		E04365-004	Plug Ass'y	LED Meter	1
CN905		QMV5004-009	Connector	for P.W.B. Joint	1
CN501		QMV5005-010	"		1
CN502, 503		" -003	"	Hall IC, Door SW	2
S901–903		VMJ5006-003	Mic. & H.P. Jack Ass'y		1
S904–906		VMJ3004-102	Pin Jack Ass'y		1
S508		QST2351-V02	Push SW. Ass'y		1
		" -V01	"		1
		QSS2301-102	Slide SW.	Timer	1
S501–507, S511–517		QSP0301-002	Tact SW		14

Other P.W. Board Parts

Mecha. connector



Hall IC

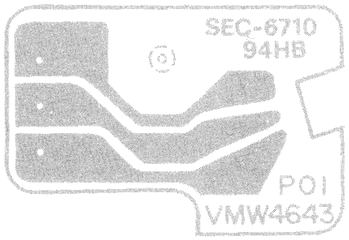


Fig. 17

Other P.W. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
[Level Meter Ass'y]					
RA, RB		QRD161J-472	C. Resistor	4.7kΩ 1/6W	2
CA, CB		QET41HR-105N	E. Capacitor	1 μF 50 V	2
CC, CD		QET41ER-106N	"	10 μF 25 V	2
CE		" -226N	"	22 μF "	1
		LT-1062	LED Module		1
[Hall IC P.W.B. Ass'y]					
		DN6838A	Hall I.C.		1

Enclosure Assembly and Electrical Parts (Except P.W. Board Parts)

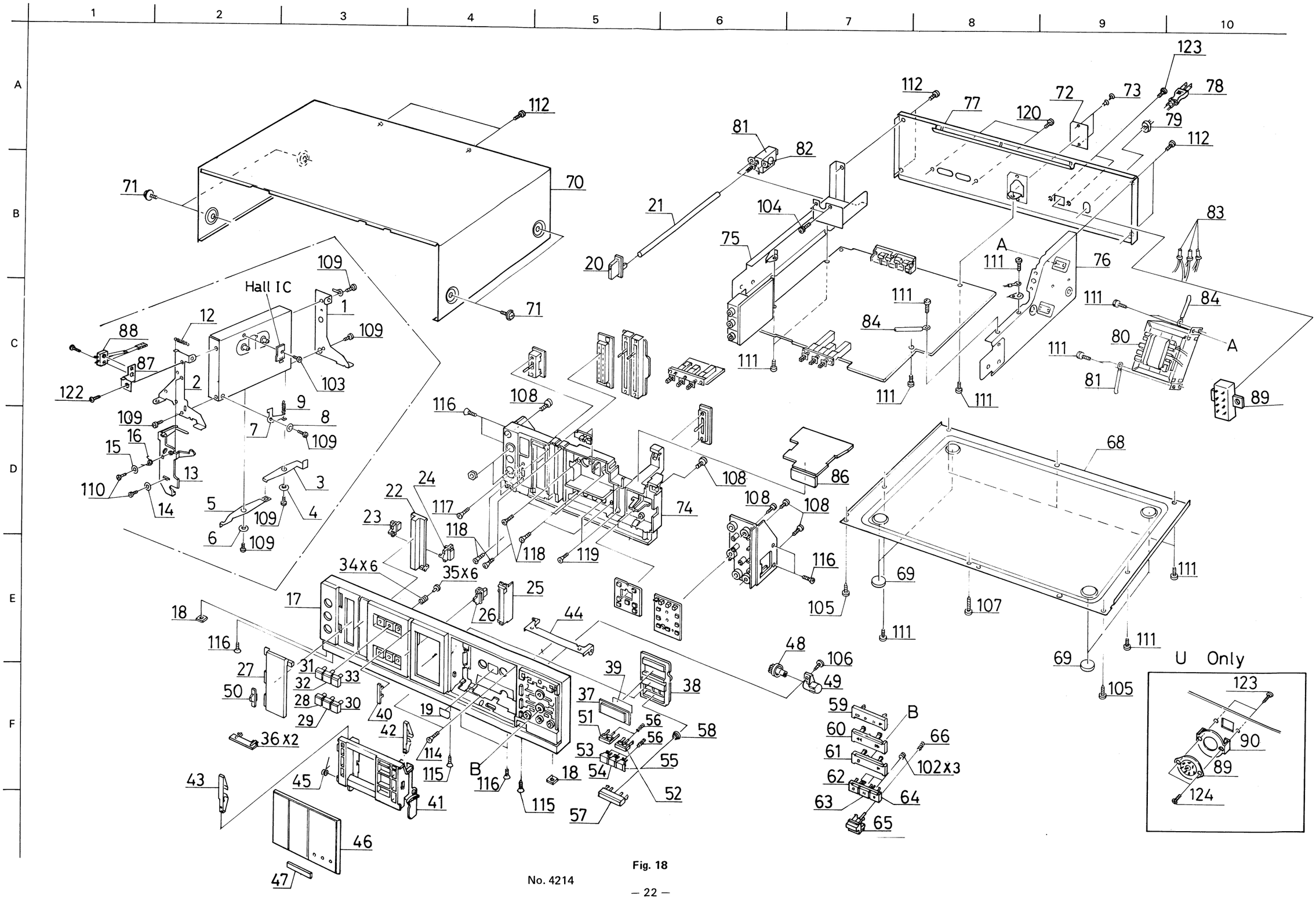


Fig. 18

No. 4214

Enclosure Assembly and Electrical Parts List (Except P.W. Board Parts)

Ref. No.	⚠	Parts No.	Parts Name	Remarks	Q'ty
1		VKL5274-001	Mecha. Bracket (R)		1
2		VKL5275-001	" (L)		1
3		VKL5270-001	Eject Lever		1
4		VKH3001-049	Flange Collar		1
5		VKL5271-001	Connecting Lever		1
6		VKH3001-049	Flange Collar		1
7		VKL5272-001	Eject Safety Lever		
8		VKH3001-027	Flange Collar		
9		VKW3002-039	Tension Spring		1
13		VKS3161-002	Lock Lever		1
14		VKH3001-047	Flange Collar		1
15		" -050	"		1
16		VKW4343-001	Eject Spring		1
(17~19.27 37~40)		ZCKDD55Y-CBF	Front Panel ass'y		1
17		VJC1233-002UL	Front Panel	KD-D55J	1
17		VJC1233-003	Front Panel	KD-D55A/B/C/E/U	1
18		TFB313563-02	Plate Nut		2
19		VJD4005-002	Reflection Plate		1
20		VXP4256-001	Push Button	for Power	1
21		VKS4003-008	Pipe		
22		VJD3354-001	Slider	Input	1
23		VXS4083-002	Slide Knob (L)	"	1
24		VXS4084-002	" (R)		1
25		VJD3356-001	Slider	Output	1
26		VXS4082-001	Slider Knob	"	1
27		VJD4619-00A	LED Escutcheon Ass'y		1
28		VXP4255-001	Push Button	for NORM.	1
29		" -002	"	CrO_2	1
30		" -003	"	Metal	1
31		" -004	"	NR On	1
32		" -005	"	Dolby B & C	1
33		" -006	"	Monitor	1
34		VKW3001-093	Compression Spring		6
35		VKS4233-001	Lock Bush		6
36		VJD4606-002	Indicator		2
37		VJK4175-001	Counter Lens		1
38		VJD3355-001	FL Escutcheon		1
39		VJD4615-001	Filter		1
40		VJD4608-001	Plate	Output	1
41		VJT2074-001	Cassette Holder		1
42		VKY4271-001	Cassette Spring		1
43		VKY4271-002	"		1
44		VKL5265-001	Bracket		1
45		VKW3006-051	Torsion Spring	C. Holder	1
46		VJT3097-00A	Lid Ass'y		1
47		VJD4607-001	Mark		1
48		VYH4769-001	Gear		1
49		VYH5033-001	Damp Holder		1
50		VXS4085-001	Slide Knob	Timer	1
51		VXP4252-001	Push Button	Reset	1
52		" -002	"	Memory	1
53		VXP4253-001	"	Mode	1
54		" -002	"	Tape Length	1
55		" -003	"	Scan Set	1
56		VKW3001-063	Compression Spring		5
57		VXP4254-001	Push Button	Music Scan	1
58		VKW4346-001	Compression Spring		1
59		VJD4605-001	Indicator Cover		1
60		VXP4249-001	Push Button	FF, REW	1
61		" -002	"	Play, Stop	1
62		VXP4250-001	"	Rec.	1
63		VXP4260-001	"	Pause	1
64		VXP4261-001	Push Button	Rec. Mute	1
65		VXP4251-00A	Push Button Ass'y	Eject	1
66		VKW3001-028	Compression Spring	"	1
67		VJC3022-001	Front Chassis (R)		1
68		VKL1219-001	Bottom Cover		1
69		VJF4003-002	Foot		4
70		VJC1235-001	Top Cover		1
71		VKZ3001-002	Special Screw		4
72		VYN2103-002	Name Plate	KD-D55B	1
		" -003	"	KD-D55A	1
		" -004	"	KD-D55C	1
		" -005	"	KD-D55E	1
		" -006	"	KD-D55J	1
		" -007	"	KD-D55U	1
73		E48729-002	Plastic Rivet		2
74		VJC1234-001	Front Chassis	KD-D55A/B/C/E/U	1
		" -002UL	"	KD-D55J	1
75		VKL3396-001	Amp. Chassis	Left	1
76		VKL3400-001	"	Right	1
77		VJC2083-002	Rear Panel	KD-D55A/B/E/U	1
77		VJC2083-001	Rear Panel	KD-D55C/J	1
78	⚠	QMP2560-200	Power Cord	KD-D55A	1
	⚠	QMP9017-008BS	"	KD-D55B	1
	⚠	QMP1200-200	"	KD-D55C/J	1
	⚠	QMP3900-200	"	KD-D55E	1
	⚠	QMP7600-200	"	KD-D55U	1
79	⚠	QHS3876-162BS	S.R. Bushing	KD-D55B	1
80	⚠	VPT54C5-051B	Power Transformer	KD-D55A/E	1
	⚠	" -051BBS	"	KD-D55B	1
	⚠	VTP54A5-041B	"	KD-D55C/J	1
	⚠	VTP54U5-041B	"	KD-D55U	1
81	⚠	QSP1110-305	Push Switch (Power)	KD-D55A/E	1
	⚠	" -305BS	"	KD-D55B	1
	⚠	" -308	"	KD-D55C/J	1
	⚠	" -306	"	KD-D55U	1
82	⚠	QFZ9010-103	M.P. Capacitor	KD-D55A/B/E	1
	⚠	QCZ9014-103	"	KD-D55C/J	1
	⚠	QCZ9015-103	"	KD-D55U	1
83		TAW000504-01	Connector	KD-D55J	1
84		VKZ4001-011	Wire Holder		3
85		QHX2075-001	Wire Clamp		10
86		FL4142-01	Counter Ass'y		1
87		VKL5307-001	Switch Bracket		1
88		VSH1104-001	Leaf Switch	MSW-0075	1
89	⚠	QSS2325-203BS	Voltage Select Switch	KD-D55B	1
	⚠	" -203	"	KD-D55A/E	1
	⚠	QSR0084-001	"	KD-D55U	1
90		VKL4275-001	Bracket	"	1
91	⚠	TAW000331-02	Fuse Holder	"	2
92	⚠	QMF51SI-R25	Fuse	"	1
101		WBS3000	Washer	Earth	2
102		VKW3001-049	Compression Spring		3
103		SDST3004Z	Screw	Hall IC	1
104		LPSP3006Z	"		2
105		SBSB3008R	"	Bottom Cover	2
106		SDSF3010Z	"	Damp Holder	1
107		SDSF3012R	"	Bottom Cover	1
108		SDSF3012Z	"	F. Plate – F. Cabi.(R) x 3, F.Plate – F.Cabi. x 3	6
109		SDST2605Z	"	Mecha. Bracket(R) x 2, Mecha. Bracket (L) x 2, Eject Lever x 1, Connecting Lever x 1, Eject Safety Lever x 1	7
110		SDST2610Z	Screw	Lock Lever	2
111		SDST3006Z	"	Bottom Cover x 5, Power Trans. x 4, Wire Holder x 1, P.W.B. x 3	13
112		SDST3006R	"	Rear Panel x 5, Top Cover x 2	7
113		SDST2606Z	"	Switch Bracket	1
114		SSST3006R	"		2
115		SSST3006Z	"	A. Chassis(R) – F. Cabi.(R) x 2	4
116		SSST3008Z	"	Cassette Holder x 2, Amp. Chassis x 2	4
117		SSSP2606Z	"	Timer Switch	2
118		SSSP3006Z	"	Input Vol. x 4, S901 x 2, S904 x 2	8
119		SSSP2004Z	"	Output Volume	2
120		SDSF3008R	"	Pin Jack	2
121		SSSF3010Z	"	F. Plate – F. Cabinet	1
122		SPSP2008Z	"	Switch Bracket	1
123		SDSP3006R	"	Voltage Select SW. KD-D55A/B/E/U	2
124		LPSP3006Z	"	" KD-D55U	2

Mechanical Component Parts

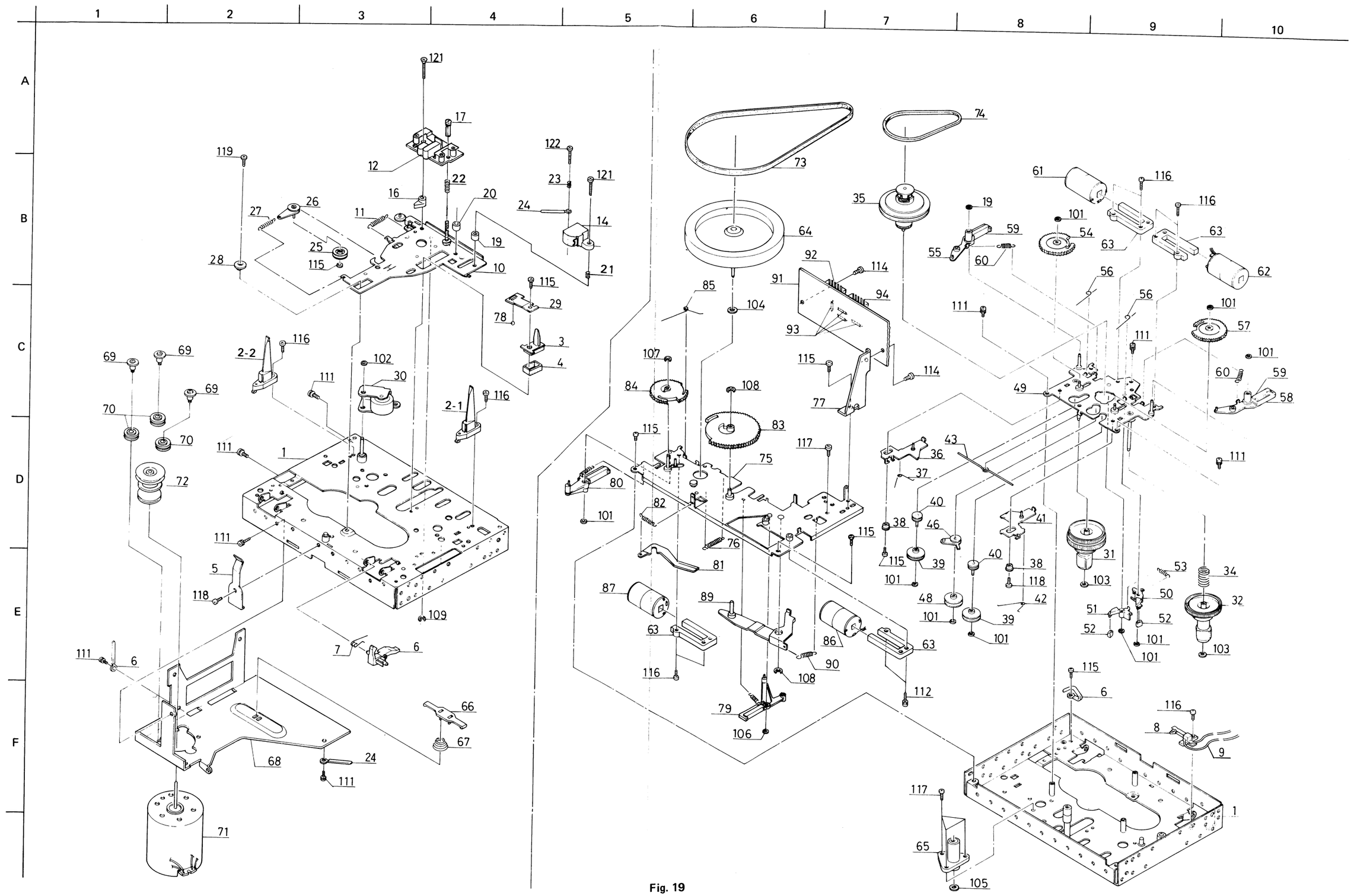


Fig. 19

Mechanical Component Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	171001504T	Chassis Ass'y		1
2-1	17150105T	Cassette Guide		1
2-2	17150106T	"		1
3	17100109T	Guide Pin		1
4	17100110T	Guide Pin Cushion		1
5	17150102T	Pack Spring		1
6	17100201T	Rec. Safety Lever		1
7	17100219T	Rec. Safety Lever Spring		1
8	64010142	Leaf Switch		1
9	66003503T	Wire		1
10	171003504AZT	Head Panel Ass'y		1
11	17100306T	Pressure Spring		1
12	ZCKDD55Y-HEAD	Head Ass'y		1
14	VGH0212-103	Erase Head		1
16	VKS4494-001	Head Collar		1
17	VKH4411-001	Azimuth Screw		1
19	17100315T	E. Head Collar		1
20	17100317T	Azimuth Stud	for E. Head	1
21	09400312T	Head Spring		1
22	VKW3001-094	Compression Spring		1
23	14400315T	Head Spring	for E. Head	1
24	11030405T	Cord Clamp		2
25	171003301ZT	Take-up Idler Ass'y		1
26	171003302ZT	Idler Shaft Ass'y		1
27	17100316T	Take-up Roller Spring		1
28	17100319T	Head Panel Collar		1
29	17100322T	Panel Pressure Plate		1
30	171004302ZT	Pinch Roller Ass'y		1
31	171009303ZT	Take-up Reel Ass'y		1
32	171009306ZT	Supply Reel Ass'y		1
33	17100915T	Back Tension Base		1
34		Back Tension Spring		1
35	171010302ZT	RF Clutch Ass'y		1
36	171011501ZT	FF Drive Base Ass'y		1
37	17101106T	FF Drive Spring		1
38	17101116T	Collar		2
39	171011301ZT	Idler Ass'y		2
40	171011302ZT	Idler Shaft Ass'y		2
41	171011502ZT	Rew. Drive Base Ass'y		1
42	17101110T	Rew. Drive Spring		1
43	17101112T	Return Spring		1
46	171011303ZT	Idler Arm Ass'y		1
48	171011307ZT	Idler Ass'y		1
49	171008502ZT	Reel Base Ass'y		1
50	17101701T	Brake Arm	Left	1
51	17101702T	"	Right	1
52	17101703T	Brake Shoe		2
53	15100928T	Auto Lever Spring		1
54	17101201T	FF Gear		1
55	17101202T	FF Trigger Arm		1
56	17101203T	RF Gear Spring		2
57	17101204T	Rew. Gear		1
58	17101205T	Rew. Trigger Arm		1
59	17101607T	Armature		2
60	15590306T	E. Head Base Spring		2
61 ⚠	171012301ZT	Coil Ass'y	(Solenoid)	1
62 ⚠	171012302ZT	"	(Solenoid)	1
63 ⚠	17101601T	Yoke	(Solenoid)	4
64	171005303ZT	Flywheel Capstan Ass'y		1
65	17100502T	Flywheel Metal		1
66	17100504T	Thrust Bearing		1

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
67	17100509T	Dumper Spring		1
68	17100510T	Flywheel Bracket		1
69	12001201T	Collar Screw		3
70	5880910T	Motor Rubber		3
71	⚠ BFA2L72	Capstan Motor		1
72	17100608T	Motor Pulley		1
73	VKB3001-016	Main Belt		1
74	VKB3000-057	RF Belt		1
75	171013503ZT	Lift Base Ass'y		1
76	17000622T	RF Clutch Arm Spring	for Pause Arm	1
77	11030405T	Cord Clamp		1
78	17100325T	Stopper		1
79	171014305ZT	Play Trigger Arm Ass'y		1
80	171014306ZT	Pause Trigger Arm Ass'y		1
81	17101408T	M. Return Arm		1
82	17101412T	Spring		1
83	17101401T	M. Gear		1
84	17101409T	P. Gear		1
85	17101406T	P. Gear Spring		1
86	⚠ 171014301ZT	Coil Ass'y	(Solenoid)	1
87	⚠ 171014302ZT	"	(Solenoid)	1
89	171015501ZT	Lift Arm Ass'y		1
90	17101504T	Arm Spring		1
91	VMW4638-003	P.W. Board		1
92	VMC0007-006	Connector		1
93	⚠ DS442	Si. Diode	for Coil ass'y (Solenoid)	4
94	VMC0007-005	Connector		1
101	94200000T	Washer	Idler Shaft Ass'y x 1, Idler Ass'y x 3, Reel Base x 2, Gear x 4, Pause Trigger Arm Ass'y x 1	11
102	97320000T	"	Pinch Roller Ass'y	1
103	94190000T	"	Take-up Reel Ass'y	1
104	93760000T	"	Thrust	1
105	Q03093-522	"	Oil Cut	1
106	VKZ4004-004	"	Play Trigger Arm Ass'y	1
107	REE1500	E-Ring	P. Gear	1
108	REE2000	"	M. Gear	1
109	REE3000	"	Panel Guide	1
111	LPSP2004Z	Screw	Reel Base x 3, Motor Pulley x 4, Lift Base x 1	8
112	LPSP2606Z	"	Coil Ass'y	2
114	SPSP2604Z	"	P.W. Board	2
115	SPST2004Z	Tapping Screw	Guide Pin x 1, Idler Ass'y x 2, Cord Clamp x 1, Lift Base x 2	6
116	SPST2005Z	"	Leaf Switch x 1, Coil Ass'y x 6	7
117	SPST2006Z	"	Cassette Guide x 2, Panel Pressure Plate x 1, Flywheel Metal x 3	6
118	SPST2604Z	"	Back Spring	1
119	SPST2605Z	"	Head Panel Collar	1
121	SPSX2010N	"		2
122	SPSX2014N	"	Erase Head	1
123	SSSP2003N	"	Stopper	1

Packing

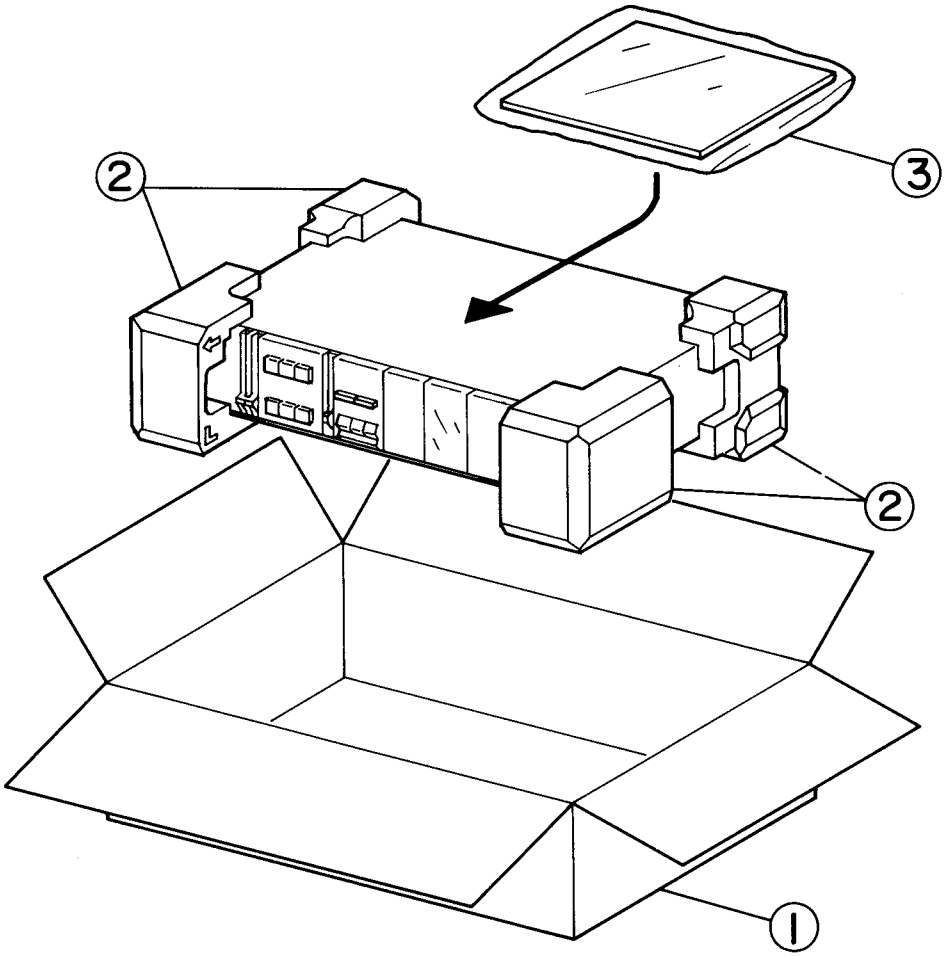


Fig. 20

Packing Material Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VPD2103-J01	Carton	KD-D55A	1
	" -J02	"	KD-D55B	1
	" -J03	"	KD-D55C	1
	" -J04	"	KD-D55E	1
	" -J05	"	KD-D55J	1
	" -J06	"	KD-D55U	1
2	VPH3136-001	Cushion (L)		1
	VPH3137-001	" (R)		1
	Q04141H	Wire Clamp	for Power Cord	1
	TKS000501-08	Sheet	for Unit	1
	VPE4002-005	Poly Bag	for Unit KD-D55B	1
4	QPGA060-06005	Envelope	for Unit KD-D55A/C/E/J/U	1
	AP4056A-36	Poly Bag	for Pin Cord	1
	VPE4002-004	"	for Instruction Book KD-D55B	1
	AP4056B-077	Envelope	for Instruction Book KD-D55A/C/E/J/U	1

Accessories

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Parts No.	⚠	Parts Name	Remarks	Q'ty
VMP0002-00B		Pin Cord		2
VNN0103-901		Instruction Book	KD-D55A/C/J/U	1
" -301		"	KD-D55B/E	1
BT20013C		Guaranty Certificate	KD-D55B	1
BT20029B		Warranty Card	KD-D55A	1
BT20025E		"	KD-D55C	1
BT20047		"	KD-D55J/U	1
TJL000443-01		Seal	KD-D55B	1
		BEAB Label	KD-D55B	1
VNC5004-001		Mark Sticker	KD-D55B/E	1
TLT052401-01		Warning Label	KD-D55A/E	1
QZL1002-003BS		"	KD-D55B	1
T44362-001		CSA Marker	KD-D55C	1
E66416-003		Envelope	KD-D55J	1
BT20046A		Special Reply Card	KD-D55U	1
BT20046		"	KD-D55J	1
BT20044B		Safety Instruction	KD-D55J	1
TLT000505-01		UL/CSA Caution Label	KD-D55C/J	2
E7795-1		EP Mark	KD-D55U	1
VNC5311-101		Caution Card	KD-D55U	1
V04062-001	⚠	Siemens Plug	KD-D55U	1
T46328-001		Caution Label	KD-D55U	1
VND4037-001		F. Mark Label	KD-D55E	1
VND4013-001		Warning Label	KD-D55B/A/E	1
BT20057		Warranty Card	KD-D55E	1

JVC
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RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan

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